VERMONT

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Agency of Transportation

March 28, 2013

RE: Calendar Year 2012 Bridge Inspection Summary Reports

Dear Community Official:

As required by the Federal Surface Transportation Act of 1978, all bridges exceeding 20 feet in span length are inspected on a 24 month cycle. A two-member team performs these inspections, with at least one member specially trained for this work. The Agency of Transportation provides these inspections as a service to the municipalities with the cost split between the Federal government (80%) and the State (20%).

Enclosed are the bridge inspection report summaries for structures located in your community which were inspected in calendar year 2012.

In an effort to reduce cost and resources, it is the intent of VTrans to make this the final year that inspection summary reports will be mailed. In the upcoming months, for all structures on public highways, the most recent report would be available for public viewing and printing under the Agency's VTransparency website application http://apps.vtrans.vermont.gov/vtransparency/Default.aspx.

With approximately 1,500 structures inspected statewide annually, the intent of these inspection summary reports is to provide an inventory of and information on the structural condition and a summary of areas of need only and not to offer an assessment regarding prioritization, preventative maintenance techniques which should be done as good practice, or specific recommendations on how to address deficiencies.

Each report represents a locally owned and maintained structure. As such, the municipality is responsible for the structure. It is recommended that these reports be shared with those individuals charged with upkeep of the structures as failure to address and/or remediate problems areas, stated within the summary section of this report, may result in additional damage or deterioration compromising public safety and/or substantially reducing the service life of the structure.

Please do not hesitate to contact this office or your local District Transportation Administrator with any questions or concerns regarding the content of these summary reports or if you are aware of any structures, exceeding 20 feet in span length, which we are not currently, and should be inspected.

Sincerely,

Wm. Michael Hedges

Wm. Michael Hedges, P.E.
Structures Program Manager

cc: Town File

VERMONT

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

Vermont Agency of Transportation ~ Structures Section ~ Bridge Management and Inspection Unit

Inspection Report for BURLINGTON *bridge no.: 00001* *District: 5*

Located on: FAU VT127 ove N.E.C.R.R. *approx. 0.31 MI N MANHATTAN DRIVE* *Owner: 04 CITY-OWNED*

CONDITION

Deck Rating: 7 GOOD

Superstructure Rating: 7 GOOD

Substructure Rating: 7 GOOD

Channel Rating: N NOT APPLICABLE

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 205009000104032

Federal Sufficiency Rating (April 2011): 097.6

Deficiency Status of Structure (April 2011): ND

AGE and SERVICE

Year Built: 1971 Year Reconstructed: 0000

Service On: 1 HIGHWAY

Service Under: 2 RAILROAD

Lanes On the Structure: 02

Lanes Under the Structure: 00

Bypass, Detour Length (miles): 02

ADT: 016800 % Truck ADT: 06

Year of ADT: 1997

GEOMETRIC DATA

Length of Maximum Span (ft): 0082

Structure Length (ft): 000084

Lt Curb/Sidewalk Width (ft): 0.5

Rt Curb/Sidewalk Width (ft): 0.5

Bridge Rdwy Width Curb-to-Curb (ft): 44

Deck Width Out-to-Out (ft): 49.5

Appr. Roadway Width (ft): 046

Skew: 10

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: RAILROAD BENEATH STRUCTURE

Min Vertical Underclr (ft): 23 FT 09 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: ROLLED BEAM

Number of Approach Spans 0000 *Number of Main Spans: 001*

Kind of Material and/or Design: 3 STEEL

Deck Structure Type: 9 OTHER

Type of Wearing Surface: 6 BITUMINOUS

Type of Membrane 8 UNKNOWN

Deck Protection: 0 NONE

APPRAISAL *AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: 1 MEETS CURRENT STANDARD

Transitions: 1 MEETS CURRENT STANDARD

Approach Guardrail 1 MEETS CURRENT STANDARD

Approach Guardrail Ends: 1 MEETS CURRENT STANDARD

Structural Evaluation: 7 BETTER THAN MINIMUM CRITERIA

Deck Geometry: 6 EQUAL TO MINIMUM CRITERIA

Underclearances Vertical and Horizontal: 7 BETTER THAN MINIMUM CRITERIA

Waterway Adequacy: N NOT OVER WATER

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: N NOT OVER WATERWAY

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 1 LOAD FACTOR (LF)

Posting Status: A OPEN, NO RESTRICTION

Bridge Posting: 5 NO POSTING REQUIRED

Load Posting: 10 NO LOAD POSTING SIGNS ARE NEEDED

Posted Vehicle: POSTING NOT REQUIRED

Posted Weight (tons):

Design Load: 6 HS 20+MOD

INSPECTION and CROSS REFERENCE *X-Ref. Route:*

Insp. Date: 072012 Insp. Freq. (months) 24 X-Ref. BrNum:

INSPECTION SUMMARY and NEEDS

07/17/2012 - Bridge has some minor deterioration overall. Alum. bridge rail has some torn components at the northwest corner that could use replacement. Steel beams could use partial cleaning and painting to correct local areas of distress. Galv. binwalls retaining abutment slope material have some progressive deterioration and will require attention within the next 10 years. ~ MJ/DK

The fascia beams could use spot cleaning and painting. The deck is showing signs of leakage especially at the abutment ends and other random areas. The approach and bridge guardrails have some collision damage which should be repaired. 7/23/10 DCP

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

Vermont Agency of Transportation ~ Structures Section ~ Bridge Management and Inspection Unit

Inspection Report for BURLINGTON *bridge no.: 00005* *District: 5*

Located on: FAU VT127 *ove WINOOSKI RIVER* *approx. 3.43 MI N MANHATTAN DRIVE* *Owner: 04 CITY-OWNED*

CONDITION

Deck Rating: 7 GOOD

Superstructure Rating: 8 VERY GOOD

Substructure Rating: 8 VERY GOOD

Channel Rating: 8 VERY GOOD

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 205009000504032

Federal Sufficiency Rating (April 2011): 089.8

Deficiency Status of Structure (April 2011): ND

AGE and SERVICE

Year Built: 1983 Year Reconstructed: 0000

Service On: 1 HIGHWAY

Service Under: 5 WATERWAY

Lanes On the Structure: 02

Lanes Under the Structure: 00

Bypass, Detour Length (miles): 09

ADT: 013800 % Truck ADT: 07

Year of ADT: 1997

GEOMETRIC DATA

Length of Maximum Span (ft): 0260

Structure Length (ft): 000680

Lt Curb/Sidewalk Width (ft): 0.5

Rt Curb/Sidewalk Width (ft): 8.1

Bridge Rdwy Width Curb-to-Curb (ft): 42.6

Deck Width Out-to-Out (ft): 55

Appr. Roadway Width (ft): 042

Skew: 00

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: FEATURE NOT A HIGHWAY OR RAILROAD

Min Vertical Underclr (ft): 00 FT 00 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: 3-SP CONT.HNCH PL GR

Number of Approach Spans 0000 *Number of Main Spans: 003*

Kind of Material and/or Design: 4 STEEL CONTINUOUS

Deck Structure Type: 1 CONCRETE CIP

Type of Wearing Surface: 6 BITUMINOUS

Type of Membrane 2 PREFORMED FABRIC

Deck Protection: 1 EPOXY COATED REBAR

APPRAISAL *AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: 1 MEETS CURRENT STANDARD

Transitions: 1 MEETS CURRENT STANDARD

Approach Guardrail 1 MEETS CURRENT STANDARD

Approach Guardrail Ends: 1 MEETS CURRENT STANDARD

Structural Evaluation: 8 EQUAL TO DESIRABLE CRITERIA

Deck Geometry: 5 BETTER THAN MINIMUM TOLERABLE CRITERIA

Underclearances Vertical and Horizontal: N NOT APPLICABLE

Waterway Adequacy: 8 SLIGHT CHANCE OF OVERTOPPING ROADWAY

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: 8 STABLE FOR SCOUR

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 2 ALLOWABLE STRESS (AS)

Posting Status: A OPEN, NO RESTRICTION

Bridge Posting: 5 NO POSTING REQUIRED

Load Posting: 10 NO LOAD POSTING SIGNS ARE NEEDED

Posted Vehicle: POSTING NOT REQUIRED

Posted Weight (tons):

Design Load: 9 HS 25

INSPECTION and CROSS REFERENCE *X-Ref. Route:*

Insp. Date: 072012 *Insp. Freq. (months) 24* *X-Ref. BrNum:*

INSPECTION SUMMARY and NEEDS

07/17/2012 - Noted 6" to 8" drop along the west side of the bridge near and between the south pier and the south abutment (roughly the bridge quarter point) was expressed in a inspection soon after the bridge was constructed and appears to be result of deck transition elevation change. Jersey barrier bridge rail needs rehabilitation to correct multiple spalls and section loss. Box beam hand/upper rail is missing roughly 20 connection bolts in various areas. Expansion joint housing could use some concrete repair and the troughs and deck drains need flushing out. A few weeps which are causing corrosion (from their discharge) along the weathering steel superstructure need to be extended. See latest servi lift report for more information ~ MJ/DK

The galvanized bottom hand rail near abutment 2 needs to be repaired. The joints and deck drains need to be cleaned of all debris. The short weep tubes should be extended under the deck in bays 1 and 4. 9/20/10 DCP

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

Vermont Agency of Transportation ~ Structures Section ~ Bridge Management and Inspection Unit

Inspection Report for BURLINGTON *bridge no.: 00015* *District: 5*

Located on: ETHAN ALLEN ove E A PKY OVER VT 127 *approx. 0.95 MI N JCT NORTH ST* *Owner: 04 CITY-OWNED*

CONDITION

Deck Rating: 8 VERY GOOD

Superstructure Rating: 8 VERY GOOD

Substructure Rating: 8 VERY GOOD

Channel Rating: N NOT APPLICABLE

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 2004030D1504031

Federal Sufficiency Rating (April 2011): 082.4

Deficiency Status of Structure (April 2011): FD

AGE and SERVICE

Year Built: 1984 Year Reconstructed: 0000

Service On: 1 HIGHWAY

Service Under: 1 HIGHWAY

Lanes On the Structure: 01

Lanes Under the Structure: 04

Bypass, Detour Length (miles): 00

ADT: 015000 % Truck ADT: 06

Year of ADT: 2008

GEOMETRIC DATA

Length of Maximum Span (ft): 0150

Structure Length (ft): 000223

Lt Curb/Sidewalk Width (ft): 0.5

Rt Curb/Sidewalk Width (ft): 0.5

Bridge Rdwy Width Curb-to-Curb (ft): 16

Deck Width Out-to-Out (ft): 17.6

Appr. Roadway Width (ft): 018

Skew: 23

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: HIGHWAY BENEATH STRUCTURE

Min Vertical Underclr (ft): 15 FT 01 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: CONT. WELDED GIRDER

Number of Approach Spans 0000 *Number of Main Spans: 003*

Kind of Material and/or Design: 4 STEEL CONTINUOUS

Deck Structure Type: 1 CONCRETE CIP

Type of Wearing Surface: 0 NOT APPLICABLE

Type of Membrane 0 NONE

Deck Protection: 1 EPOXY COATED REBAR

APPRAISAL **AS COMPARED TO FEDERAL STANDARDS*

Bridge Railings: 1 MEETS CURRENT STANDARD

Transitions: 1 MEETS CURRENT STANDARD

Approach Guardrail 1 MEETS CURRENT STANDARD

Approach Guardrail Ends: 1 MEETS CURRENT STANDARD

Structural Evaluation: 6 EQUAL TO MINIMUM CRITERIA

Deck Geometry: 3 INTOLERABLE, CORRECTIVE ACTION NEEDED

Underclearances Vertical and Horizontal: 8 EQUAL TO DESIRABLE CRITERIA

Waterway Adequacy: N NOT OVER WATER

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: N NOT OVER WATERWAY

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 1 LOAD FACTOR (LF)

Posting Status: A OPEN, NO RESTRICTION

Bridge Posting: 5 NO POSTING REQUIRED

Load Posting: 10 NO LOAD POSTING SIGNS ARE NEEDED

Posted Vehicle: POSTING NOT REQUIRED

Posted Weight (tons):

Design Load: 4 H 20

INSPECTION and CROSS REFERENCE *X-Ref. Route: VT127*

Insp. Date: 072012 *Insp. Freq. (months) 24* *X-Ref. BrNum: 00015*

INSPECTION SUMMARY and NEEDS

07/19/2012 - MJ/DK

This structure is in good condition with only some minor shrinkage cracks in the soffit. 7/16/10 DCP

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

Vermont Agency of Transportation ~ Structures Section ~ Bridge Management and Inspection Unit

Inspection Report for BURLINGTON *bridge no.: 00D12* *District: 5*

Located on: FAU TH11 *ove FAU TH11 OVER VT127 approx. NORTH AVE. INTERCHANGE* *Owner: 04 CITY-OWNED*

CONDITION

Deck Rating: 8 VERY GOOD

Superstructure Rating: 8 VERY GOOD

Substructure Rating: 7 GOOD

Channel Rating: N NOT APPLICABLE

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 2050270D1204032

Federal Sufficiency Rating (April 2011): 096

Deficiency Status of Structure (April 2011): FD

AGE and SERVICE

Year Built: 1984 Year Reconstructed: 0000

Service On: 1 HIGHWAY

Service Under: 1 HIGHWAY

Lanes On the Structure: 02

Lanes Under the Structure: 05

Bypass, Detour Length (miles): 00

ADT: 005000 % Truck ADT: 02

Year of ADT: 2008

GEOMETRIC DATA

Length of Maximum Span (ft): 0128

Structure Length (ft): 000132

Lt Curb/Sidewalk Width (ft): 0.5

Rt Curb/Sidewalk Width (ft): 0.5

Bridge Rdwy Width Curb-to-Curb (ft): 54.7

Deck Width Out-to-Out (ft): 58.8

Appr. Roadway Width (ft): 040

Skew: 00

Bridge Median: 2 CLOSED MEDIAN (NO BAR

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: HIGHWAY BENEATH STRUCTURE

Min Vertical Underclr (ft): 14 FT 09 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: WELDED PLATE GIRDER

Number of Approach Spans 0000 *Number of Main Spans: 001*

Kind of Material and/or Design: 3 STEEL

Deck Structure Type: 1 CONCRETE CIP

Type of Wearing Surface: 6 BITUMINOUS

Type of Membrane 2 PREFORMED FABRIC

Deck Protection: 1 EPOXY COATED REBAR

APPRAISAL **AS COMPARED TO FEDERAL STANDARDS*

Bridge Railings: 1 MEETS CURRENT STANDARD

Transitions: 1 MEETS CURRENT STANDARD

Approach Guardrail 1 MEETS CURRENT STANDARD

Approach Guardrail Ends: 1 MEETS CURRENT STANDARD

Structural Evaluation: 7 BETTER THAN MINIMUM CRITERIA

Deck Geometry: 9 SUPERIOR TO DESIRABLE CRITERIA

Underclearances Vertical and Horizontal: 3 INTOLERABLE, CORRECTIVE ACTION NEEDED

Waterway Adequacy: N NOT OVER WATER

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: N NOT OVER WATERWAY

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 2 ALLOWABLE STRESS (AS)

Posting Status: A OPEN, NO RESTRICTION

Bridge Posting: 5 NO POSTING REQUIRED

Load Posting: 10 NO LOAD POSTING SIGNS ARE NEEDED

Posted Vehicle: POSTING NOT REQUIRED

Posted Weight (tons):

Design Load: 9 HS 25

INSPECTION and CROSS REFERENCE *X-Ref. Route: VT127*

Insp. Date: 072012 *Insp. Freq. (months) 24* *X-Ref. BrNum: 00012*

INSPECTION SUMMARY and NEEDS

07/19/2012 - Plug joints should be installed at each abutment. Leakage is contributing to early signs of abutment distress. The (10) missing box beam bridge rail bolts should be reinstalled. Settlement along the side slopes at the west abutment may require additional attention if displacement continues. ~ MJ/DK

The abutment 1 approach needs have corrective measure made to prevent any further bank erosion and undermining of the wearing surface. The deck could stand to be repaved in the near future. 7/16/10 DCP

** Stone fill and asphalt was added after this inspection on the north side of abutment 1 to help prevent further erosion on that side.*